

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/090659 A2

(51) International Patent Classification⁷: **G06F**

(21) International Application Number:
PCT/IB2004/050401

(22) International Filing Date: 5 April 2004 (05.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/462,210 10 April 2003 (10.04.2003) US

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants and
(72) Inventors: DALAL, Mukesh [US/US]; 1533 Rio Grande Street, Davis, CA 95616 (US). PRIEDITIS, Armand [US/US]; 1513 Hampton Drive, Davis, CA 95616 (US).

Declaration under Rule 4.17:
— of inventorship (Rule 4.17(iv)) for US only

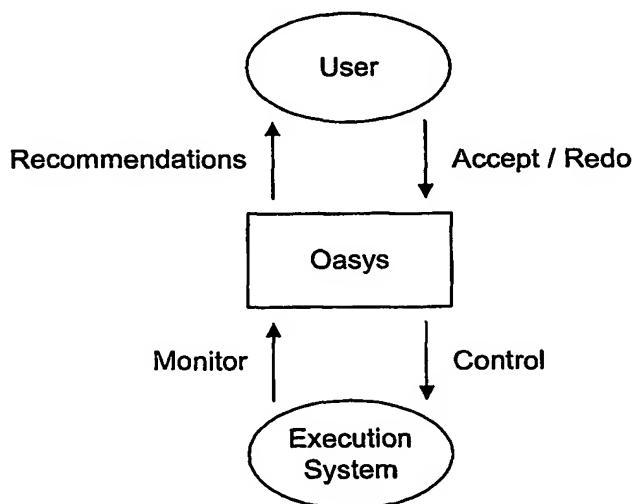
(74) Common Representative: DALAL, Mukesh; 1533 Rio Grande Street, Davis, CA 95616 (US).

Published:
— without international search report and to be republished upon receipt of that report

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OPTIMIZING ACTIVE DECISION MAKING USING SIMULATED DECISION MAKING



(57) Abstract: A method and a computer implemented system for improving an active decision making process by using a simulation model of the decision making process. The simulation model is used to evaluate the impact of alternative decisions at a choice point, in order to select one alternative. The method or system may be integrated with an external system, like a manufacturing execution system. The simulation model may be stochastic, may be updated from monitoring the external system or the simulations, or may contain a Bayesian network